CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/CEMENT/2019-20 Date: 08.08.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
*** Name of Work**	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement
Sample Received on	:	06.08.2019
Period of Testing	:	06.08.2019 to 08.08.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	385 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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****

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/SAND-Gradation/2019-20 08.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of Work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP,
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Fine Aggregates (M - Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	06.08.2019
Date of Testing	:	08.08.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.50	90-100	90-100	90-100	95-100
2.36	79.30	60-95	75-100	85-100	95-100
1.18	61.30	30-70	55-90	75-100	90-100
600 Micron	40.00	15-34	35-59	60-79	80-100
300 Micron	18.70	5-20	8-30	12-40	15-50
150 Micron	6.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/AGG/GR/2019-20 08.08.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of Work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP,
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	06.08.2019
Date of Testing	:	08.08.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.48	95-100	85-100
20	41.18	30-70	0-20
10	20.78	10-35	0-5
4.75	3.60	0-5	-

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* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/AGG/GR/2019-20 08.08.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
*** Name of Work**	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	06.08.2019
Date of Testing	:	08.08.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.54	95-100	85-100
10	40.64	25-55	0-20
4.75	5.60	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KAK/W.No.09/Steel/2019-20 13.08.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	13.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	512	553	13.05	O.K	O.K

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Job No.: CTCE/BBMP/KAK/W.No.09/Steel/2019-20 13.08.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
*** Name of work**	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Samples ID**	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	13.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	516	557	13.2	O.K	O.K

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Job No.: CTCE/BBMP/KAK/W.No.09/Steel/2019-20 13.08.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
*** Name of work**	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Samples ID**	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	13.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	520	562	13.35	O.K	O.K

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/Cube/2019-20 13.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.102	478.5	21.27
2	16.08.2019	13.09.2019	8.265	486.3	21.61
3	16.08.2019	13.09.2019	8.320	512.9	22.80

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/Cube/2019-20 13.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.325	492.5	21.89
2	16.08.2019	13.09.2019	8.415	502.4	22.33
3	16.08.2019	13.09.2019	8.495	516.3	22.95

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.195	486.9	21.64
2	16.08.2019	13.09.2019	8.215	495.6	22.03
3	16.08.2019	13.09.2019	8.320	502.8	22.35

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* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.327	486.9	21.64
2	19.08.2019	16.09.2019	8.415	495.5	22.02
3	19.08.2019	16.09.2019	8.339	505.6	22.47

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/Cube/2019-20 16.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.178	502.4	22.33
2	19.08.2019	16.09.2019	8.259	512.6	22.78
3	19.08.2019	16.09.2019	8.360	526.9	23.42

*Information is furnished by the Customer/Representative.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/Cube/2019-20 16.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.378	474.5	21.09
2	19.08.2019	16.09.2019	8.495	486.9	21.64
3	19.08.2019	16.09.2019	8.405	513.2	22.81

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/Cube/2019-20 19.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2019	19.09.2019	8.166	485.9	21.60
2	22.08.2019	19.09.2019	8.213	513.2	22.81
3	22.08.2019	19.09.2019	8.350	522.6	23.23

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2019	19.09.2019	8.305	474.5	21.09
2	22.08.2019	19.09.2019	8.409	482.3	21.44
3	22.08.2019	19.09.2019	8.416	513.6	22.83

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2019	19.09.2019	8.203	486.9	21.64
2	22.08.2019	19.09.2019	8.308	492.2	21.88
3	22.08.2019	19.09.2019	8.415	513.2	22.81

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2019	23.09.2019	8.119	480.5	21.36
2	26.08.2019	23.09.2019	8.296	492.5	21.89
3	26.08.2019	23.09.2019	8.320	511.8	22.75

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2019	23.09.2019	8.370	486.6	21.63
2	26.08.2019	23.09.2019	8.492	496.6	22.07
3	26.08.2019	23.09.2019	8.220	513.2	22.81

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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2019	23.09.2019	8.392	485.6	21.58
2	26.08.2019	23.09.2019	8.456	490.3	21.79
3	26.08.2019	23.09.2019	8.223	511.9	22.75

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.08.2019	26.09.2019	8.335	486.5	21.62
2	29.08.2019	26.09.2019	8.415	492.3	21.88
3	29.08.2019	26.09.2019	8.492	513.2	22.81

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.08.2019	26.09.2019	8.332	475.5	21.13
2	29.08.2019	26.09.2019	8.455	485.9	21.60
3	29.08.2019	26.09.2019	8.392	513.2	22.81

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.08.2019	26.09.2019	8.090	475.5	21.13
2	29.08.2019	26.09.2019	8.192	485.6	21.58
3	29.08.2019	26.09.2019	8.224	513.3	22.81

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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.10.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2019	01.10.2019	8.178	480.6	21.36
2	03.09.2019	01.10.2019	8.215	510.3	22.68
3	03.09.2019	01.10.2019	8.309	523.6	23.27

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1030a/Cube/2019-20 01.10.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.10.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2019	01.10.2019	8.180	485.5	21.58
2	03.09.2019	01.10.2019	8.290	495.2	22.01
3	03.09.2019	01.10.2019	8.324	513.5	22.82

*Information is furnished by the Customer/Representative.

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.10.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2019	01.10.2019	8.170	486.6	21.63
2	03.09.2019	01.10.2019	8.290	496.8	22.08
3	03.09.2019	01.10.2019	8.320	512.9	22.80

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coping Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.10.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.09.2019	09.10.2019	8.166	479.3	21.30
2	11.09.2019	09.10.2019	8.224	489.3	21.75
3	11.09.2019	09.10.2019	8.320	512.7	22.79

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.10.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.09.2019	09.10.2019	8.328	516.6	22.96
2	11.09.2019	09.10.2019	8.496	526.9	23.42
3	11.09.2019	09.10.2019	8.385	534.9	23.77

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* Sample ID	:	Coping Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.10.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.09.2019	09.10.2019	8.228	516.4	22.95
2	11.09.2019	09.10.2019	8.390	532.6	23.67
3	11.09.2019	09.10.2019	8.415	526.9	23.42

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coping Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.10.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.09.2019	09.10.2019	8.308	480.5	21.36
2	11.09.2019	09.10.2019	8.456	490.8	21.81
3	11.09.2019	09.10.2019	8.226	513.2	22.81

*Information is furnished by the Customer/Representative.

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Job No.:CTCE/BBMP/KAK/W.No.09/CSR-1030a/Precast Slab/2019-20 18.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of work	:	Construction of RCC drain from Saibaba Temple to Raghavendra Temple HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Precast Slab (250mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	16.09.2019
Date of Testing	:	18.09.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.406	2552.77	1.62	0.959	30.15	15.36	16.58	17.29	21.62
2	50.00	82.00	0.418	2596.17	1.64	0.961	32.25	16.42	17.74	17.05	21.31
3	50.00	84.00	0.416	2522.23	1.68	0.965	33.95	17.29	18.67	18.03	22.54

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